

10717130 2/28/06

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NEWS	18 FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	19 FEB 27	New STN AnaVist pricing effective March 1, 2006
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NEWS	21 FEB 28	TOXCENTER reloaded with enhancements
NEWS	22 FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	23 MAR 01	INSPEC reloaded and enhanced
NEWS	24 MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
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=> s catalytic(l)oxides  
401090 CATALYTIC  
26 CATALYTICS  
401099 CATALYTIC  
(CATALYTIC OR CATALYTICS)  
337424 OXIDES  
L1 13212 CATALYTIC(L)OXIDES

=> s l1 and Rb  
65539 RB  
8646 RBS  
74130 RB  
(RB OR RBS)  
L2 62 L1 AND RB

=> s L2 and Ce  
85325 CE

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1085 CES

86036 CE

(CE OR CES)

L3 15 L2 AND CE

=> s l3 and Cr

392803 CR

1777 CRS

393917 CR

(CR OR CRS)

L4 7 L3 AND CR

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L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2005:638512 CAPLUS  
 DOCUMENT NUMBER: 143:99676  
 TITLE: Catalytic partial oxidation of hydrogen sulfide using staged addition of oxygen  
 INVENTOR(S): Ramani, Srirama; Keller, Alfred E.  
 PATENT ASSIGNEE(S): ConocoPhillips Company, USA  
 SOURCE: U.S. Pat. Appl. Publ., 20 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005158235	A1	20050721	US 2004-758465	20040115
WO 2005069804	A2	20050804	WO 2005-US1027	20050112
V: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HT, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPL. INFO.: US 2004-758465 A 20040115  
 AB A multistage oxygen-added catalytic partial oxidation process for converting H<sub>2</sub>S in an acid gas stream to elemental sulfur and water includes contacting the H<sub>2</sub>S-containing gas stream with a partial oxidation catalyst in the presence of oxygen. The total stoichiometric amount of oxygen required for the catalytic partial oxidation of H<sub>2</sub>S is provided in at least two increments to multiple catalytic regions and the formed sulfur is condensed from the product gas mixture. The catalyst is supported on a refractory material, such as oxides of Al, Zr, Mg, Ca, Si, La, Sm, or Yb. The catalyst can contain Pt, Rh, Ru, Ir, Ni, Pd, Fe, Cr, Co, Re, Mo, V, Bi, Sn, Sb, lanthanide elements, and alkaline elements, especially Mg, Ca, or Ba.

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:142588 CAPLUS  
 DOCUMENT NUMBER: 136:184267  
 TITLE: Improved catalysts for the manufacture of acrylonitrile  
 INVENTOR(S): Papanizos, Christos; Seely, Michael J.; Friedrich, Maria Strada; Suresh, Dev D.  
 PATENT ASSIGNEE(S): The Standard Oil Company, USA  
 SOURCE: PCT Int. Appl., 11 pp.  
 CODEN: PIXXDD  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002013963	A2	20020221	WO 2001-US24253	20010802
WO 2002013963	A3	20020502		
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, HT, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 6458742	B1	20021001	US 2000-641380	20000817
CA 2417987	AA	20020221	CA 2001-2417987	20010802
AU 2001078136	A5	20020225	AU 2001-78136	20010802
EP 1309402	A2	20030514	EP 2001-956103	20010802
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001013310	A	20030624	BR 2001-13310	20010802
JP 2004505766	T2	20040226	JP 2002-519095	20010802
RU 2266784	C2	20051227	RU 2003-107043	20010802
US 2002198398	A1	20021226	US 2002-213755	20020806
US 6965046	B2	20051115		
BG 107525	A	20031231	BG 2003-107525	20030205
ZA 2003001006	A	20040213	ZA 2003-1006	20030205

PRIORITY APPL. INFO.: US 2000-641380 A 20000817  
 WO 2001-US24253 W 20010802  
 AB A catalyst composition comprising a complex of catalytic oxides of iron, bismuth, molybdenum, cobalt, cerium, antimony, at least one of nickel or magnesium, and at least one of lithium, sodium, potassium, rubidium, or thallium, and characterized by the following empirical formula:  $AaBbCcFdBdEeGgHhMmOx$  wherein A is at least one of Cr, P, Sn, Te, B, Ge, Zn, In, Mn, Ca, V, or mixts. thereof, B is  $\geq 1$  of Li, Na, K, Rb, Cs, Tl, or mixts. thereof, C is at least one of Ni, Mg or mixts. thereof, a = 0-4.0, b = 0.01-1.5, c = 1.0-10.0, d = 0.1-5.0, e = 0.1-2.0, f = 0.1-10.0, g = 0.1-2.0, h = 0.1-2.0, m = 12.0-18.0, and x = a number determined by the valence requirements of the other elements present. The catalyst is useful in processes for the ammoxidation of an olefin selected from the group consisting of propylene,

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 isobutylene or mixts. thereof, to acrylonitrile, methacrylonitrile and mixts. thereof, resp. Thus, 196.49 g ammonium heptamolybdate in 400 mL water, 625 g silica sol (40% SiO<sub>2</sub>), and a 50% soln. of Sb<sub>2</sub>O<sub>3</sub> 5.96, Fe(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O 66.12, Ni(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O 71.39, Co(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O 83.36, Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O 41.96, Bi(NO<sub>3</sub>)<sub>3</sub>·5H<sub>2</sub>O 19.85, KNO<sub>3</sub> 1.66, and Ce(NH<sub>4</sub>)<sub>2</sub>(NO<sub>3</sub>)<sub>6</sub>·6H<sub>2</sub>O 89.73 g were blended to give 479 g catalyst and heated at 290° for 3 h, at 425° for 3 h, and at 600° for 3 h to give a finished catalyst K<sub>0.2</sub>Ni<sub>0.3</sub>Mo<sub>0.2</sub>OFe<sub>2.0</sub>Bi<sub>0.5</sub>Co<sub>0.3</sub>Ce<sub>0.1</sub>Os<sub>0.5</sub>Mo<sub>0.3</sub>. 60% having conversion of propylene to all products 98.0% and conversion propylene to acrylonitrile 79.8%.

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000:172958 CAPLUS  
 DOCUMENT NUMBER: 132:200309  
 TITLE: Electrocatalytic selective oxidation of hydrocarbons  
 INVENTOR(S): Kuehnle, Adolf; Stochiol, Guido; Duda, Mark  
 PATENT ASSIGNEE(S): Creavis Gesellschaft fuer Technologie und Innovation m.b.H., Germany  
 SOURCE: Ger. Offen., 8 pp.  
 CODEN: GWXXEX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19841872	A1	20000316	DE 1998-19841872	19980914
EP 987348	A1	20000322	EP 1999-114731	19990726
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
SG 78389	A1	20010220	SG 1999-4292	19990902
CN 1247909	A	20000322	CN 1999-118599	19990913
JP 2000096278	A2	20000404	JP 1999-259116	19990913
BR 9904102	A	20000912	BR 1999-4102	19990913
KR 2000023122	A	20000425	KR 1999-39215	19990914
MX 9908455	A	20000930	MX 1999-8455	19990914
US 6210557	B1	20010403	US 1999-395214	19990914

PRIORITY APPL. INFO.: DE 1998-19841872 A 19980914  
 AB Procedure for the electrochem. oxidation of organic compds. is described. As an anode material a mixed oxide  $Mo_aBi_bK_1cX_2dX_3eX_4fX_5gO_h$  is used, with X1 = V, Nb, Cr, W, Ta, Ga, Co and/or La, X2 = Li, La, K, Rb, Cs, Cu, Ag, Pd and/or Pt, X3 = Fe, Co, Li and/or Zn, X4 = Sn, Pb, Sb or Te, X5 = Ti, Zr, Si and/or Al, whereby a = 0 to 3, b = 0 to 3, under the condition that a + d  $\geq$  0.15, c = 0 to 12.5, d = 0 to 5, e = 0 to 1.5, f = 0 to 1 and g = 0 to 15. As an example, the oxidation of propene is described.

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L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1998:774201 CAPLUS  
 DOCUMENT NUMBER: 130:25443  
 TITLE: Catalyst for the manufacture of acrylonitrile and hydrogen cyanide  
 INVENTOR(S): Suresh, Dev Dhanaraj; Paparizos, Christos; Seely, Michael J.; Friedrich, Maria Strada; Drenski, Tama Lee  
 PATENT ASSIGNEE(S): The Standard Oil Company, USA  
 SOURCE: U.S., 4 pp.  
 CODEN: USKXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5840648	A	19981124	US 1997-923878	19970902
EP 900592	A1	19990310	EP 1998-306542	19980817
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
EP 1321188	A1	20030625	EP 2003-75784	19980817
R: DE, ES, GB, IT, NL				
RO 115333	B1	20000128	RO 1998-1345	19980831
CN 1223903	A	19990728	CN 1998-117923	19980901
CN 1131725	B	20031224		
RU 2217232	C2	20031127	RU 1998-117081	19980901
BG 64461	B1	20050331	BG 1998-102741	19980901
JP 11169715	A2	19990629	JP 1998-248798	19980902
TW 470666	B	20020101	TW 1998-87114484	19981110
PRIORITY APPL. INFO.:			US 1997-923878	A 19970902
			EP 1998-306542	A3 19980817

AB The title catalyst composition comprises a complex of catalytic oxides of iron, bismuth, molybdenum and calcium and characterized by the formula:  $AaBbCcDdFeFeBiMol20x$  where A=one or more of Li, Na, K, Rb and Cs or mixts. thereof B=one or more of Mg, Mn, Ni, Co, Ag, Pb, Re, Cd and Zn or mixts. thereof C=one or more of Ce, Cr, Al, Sb, P, Ge, La, Sn, V and W or mixts. thereof D=one or more of Ca, Sr, Ba or mixts. thereof and a=0.01 to 1.0; b and e=1.0-10; c, d, and f=0.1 to 5.0 and x is a number determined by the valence requirements of the other elements present.  
 REFERENCE COUNT: 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1995:524150 CAPLUS  
 DOCUMENT NUMBER: 122:266277  
 TITLE: Manufacture of acrylic acid by oxidation of propylene with mixed metal oxide catalysts  
 INVENTOR(S): Ushikubo, Takashi; Koyasu, Yukio; Wajiki, Shin  
 PATENT ASSIGNEE(S): Mitsubishi Kagaku KK, Japan; Mitsubishi Chemical Corp.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKKKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07053448	A2	19950228	JP 1993-204231	19930818
JP 3500663	B2	20040223		
PRIORITY APPL. INFO.:			JP 1993-204231	19930818

AB Acrylic acid is manufactured by gas-phase catalytic oxidation of propylene in the presence of mixed metal oxides containing Mo, V, Te, X, and O (X = 21 of Nb, Ta, W, Ti, Al, Zr, Cr, Mn, Fe, Ru, Co, Rh, Ni, Pd, Pt, Sb, Bi, B, In, Li, Na, K, Rb, Cs, Ce) at the ratios (based on the total of the above elements except O) 0.25-0.98 for Mo and 0.003-0.5 for V, Te, and X. Thus, 1:15:14 propylene, air, and H<sub>2</sub>O were passed through MoV<sub>0.3</sub>Te<sub>0.2</sub>Nb<sub>0.12</sub>O<sub>n</sub> (preparation given) at 370° and space velocity 3748 h<sup>-1</sup> to give 73.5% acrylic acid.

L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1992:496529 CAPLUS  
 DOCUMENT NUMBER: 117:96529  
 TITLE: Afterburning catalysts  
 INVENTOR(S): Monceaux, Laurence Annie; Courtine, Pierre Eugene;  
 Xian, Hua; Sri, Rahayu Wuryaningih  
 PATENT ASSIGNEE(S): Specialites et Techniques en Traitement de Surface, Fr.  
 SOURCE: PCT Int. Appl., 20 pp.  
 CODEN: FIKXZ2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9201505	A1	19920206	WO 1991-FR609	19910724
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
FR 2665089	A1	19920131	FR 1990-9502	19900725
FR 2665089	B1	19931119		
EP 540635	A1	19930512	EP 1991-914001	19910724
EP 540635	B1	19981104		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
JP 05509033	T2	19931216	JP 1991-513200	19910724
AT 172886	E	19981115	AT 1991-914001	19910724
ES 2124706	T3	19990216	ES 1991-914001	19910724
US 5622680	A	19970422	US 1995-438873	19950510
PRIORITY APPL. INFO.:			FR 1990-9502	A 19900725
			WO 1991-FR609	W 19910724
			US 1993-965280	B1 19930125
			US 1994-188744	B1 19940131

AB The catalysts contain perovskite oxides of the general formula  $Lx_{1-x}M_{1-x}M'_{2x}O_{3-x}$ , where L is a rare earth metal; L' is Sr, Ca, Ba, Ce, K, Bi, Rb, or Na; M is Cr, Mn, Fe, Co, Ni, or Cu; M' is 21 of Pt, Ru, Pd, Rh, or a cationic lacuna; 0<x<0.5, 0.85<y<1, 0.5<z<0.8, and 0.85<y+z<1. A typical catalyst is La<sub>0.85</sub>Pr<sub>0.2</sub>Mn<sub>0.2</sub>Ni<sub>0.9</sub>Pd<sub>0.01</sub>O<sub>3</sub> or La<sub>0.35</sub>Pr<sub>0.2</sub>Mn<sub>0.99</sub>Pd<sub>0.001</sub>Rh<sub>0.001</sub>O<sub>3</sub>. The catalysts are suitable for treating exhaust gases from diesel engines for soot removal. The catalysts are prepared from a solution of salts of the catalytic metals, which is evaporated to form a gel that is calcined, milled, and calcined.

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1925:23713 CAPLUS  
 DOCUMENT NUMBER: 19:23713  
 ORIGINAL REFERENCE NO.: 19:3093a-d  
 TITLE: Methanol, etc.  
 PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 229714		19230823	GB	

AB MeOH together with other oxygenated organic compds. are prepared by passing mixts. of CO or CO<sub>2</sub> (or both) with H<sub>2</sub> at increased temperature and pressure, over a catalyst containing metal oxides or compds. which are not reduced by the reaction gases at temps. up to 550° under pressure. Ni, Fe and Co must be excluded from the catalytic material. Among the catalysts which it is stated may be employed are: oxides, hydroxides or carbonates of the alkali, alkaline earth or "earth" and "rare earth" metals such as Al, Be, Zr, Th or Ce; mixts. or compds. of MgO or Al<sub>2</sub>O<sub>3</sub> with oxides of Pb, Bi, Ti, Zn, Cd, Cu, Sn, Sb, Si, B and Ti; "potash-lime" or a mixture of KOH and Al<sub>2</sub>O<sub>3</sub>, or Mg chromate; a mixture of Pb chromate with Al<sub>2</sub>O<sub>3</sub>, together with a little KOH; MgO or ZnO mixed with KOH or RbOH or carbonates of K or Rb; the product obtained by igniting in the air or in an inert gas a mixture of Cu oxide and powdered Al; mixts. of K, Cs or Rb compds. with one or more of the oxides of U, Al, Cr, Mn or of rare earth metals such as Ce, La, Th, Zr or Yt; mixts. or compds. of ZnO with oxides of Al, Ba, rare earth metals, Cr, Mg, Mn, Ta, Ti, W or V; Sb oxide mixed with BeO; W threads containing Th; metallic Mo or Ti containing Al<sub>2</sub>O<sub>3</sub>; the product obtained by melting K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> and adding ZnO or an oxide of Mn, Ti, Ce, U, Th or Zr and breaking up the cooled mass, with or without subsequent leaching or reduction. The H<sub>2</sub> should exceed in volume the oxides of C employed; the pressure should preferably be higher than 50 atmospheric and temps. of 300-600° are used. The velocity of flow of the gases may vary between 5 and 200 cu. m. (calculated on atmospheric pressure) per hr. for each kg. of contact mass. Cf. C. A. 19, 2960 and following pat.

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

34.45

34.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-5.25

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